

Attorney Docket #10002601-4

Amendments to the Claims

This list of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-20 (canceled)

21. (currently amended) A collection of individual quantities of a polymer for use in outgassing-sensitive environments, comprising:

suitable addition polymerizing material selected to provide low total material loss (TML) and collected volatile condensable materials (CVCM) values, wherein the addition polymerizing material includes a silicone polymer which achieves curing by vinyl polymerization, said addition polymerizing material mixed by determining a quantity of said material for a single application, mixing a quantity of said selected material at stoichiometric proportions within 2% by weight in a batch of at least four times the quantity for the single application, said mixing resulting in combining component parts of said addition polymerizing material for polymerization, subdividing the batch into single application quantities, and placing a plurality of the application quantities in a chilled environment such that polymerization is retarded sufficiently for anticipated future use of the plurality of said application quantities as pre-mixed frozen (PMF) material; and

the mixed polymerizing material provided in individual ones of the application quantities for use in the outgassing-sensitive environments, thereby permitting cold storage of unused application quantities retained for future use while providing said individual ones of the application quantities for use as desired. A polymer as described in claim 18, wherein the polymer is outgassed by outgassing by placing an assembly using the polymer for at least one day in a high vacuum environment of pressure lower than 10^{-6} torr and at least 30° C.

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22. (currently amended) A polymer as described in claim 18-21, wherein the polymer is ~~outgassed by outgassing by placing an assembly using the polymer for at least one day in a high vacuum environment of pressure lower than 10^{-6} torr and at least 30°C is~~ performed to deplete trapped and dissolved gases, including:

nitrogen, oxygen and water,

solvents, if any, used during cleaning processes,

low molecular weight hydrocarbons and amines from the component parts of said addition polymerizing material, and

residual and unreacted material from said component parts of said addition polymerizing material.